

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1348	gunn.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:47
L2	0	gunn-lawrence.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:47
L3	0	gunn-lawrence-c.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:47
L4	0	"lawrence adj gunn"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:47
L5	0	lawrence adj gunn	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:48
L6	42	lawrence near2 gunn	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:48
L7	39	pinguet.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:48
L8	0	pinguet-thierry.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:48
L9	15	pinguet-thierry-j.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:48
L10	34	rattier.in..in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:48
L11	34	rattier.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:48

## EAST Search History

L12	4	rattier-maxime.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:49
L13	7	rattier-maxime-j.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:49
L14	8831	ji.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:49
L15	0	ji-zhen-li.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:49
L16	8	witzens.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:49
L17	4	witzens-jeremy.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:49
L18	84	(6 or 7 or 9 or 11 or 16 or 17)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:50
L19	0	8 and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:50
L20	30	18 and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:50
L21	13	18 and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:51
L22	4428	substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L23	156	L22 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56

## EAST Search History

L24	1691	(L22 or L23) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L25	178	(L22 or L23) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L26	47	L23 and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L27	11	L23 and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L28	12	(angl\$4 near2 (tip or fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L29	136	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L30	134	(angl\$4 near2 (fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L31	12	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L32	115	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L33	136	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L34	115	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L35	136	(L33 or L34) and substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56

## EAST Search History

L36	4334	385/37	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L37	886	L36 and substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L38	310	L36 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L39	34	L37 and L38	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L40	43	L36 and (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L41	4428	substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L42	156	L41 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L43	1691	(L41 or L42) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L44	178	(L41 or L42) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L45	47	L42 and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L46	12	(angl\$4 near2 (tip or fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L47	136	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56

## EAST Search History

L48	134	(angl\$4 near2 (fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L49	12	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L50	115	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L51	136	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L52	115	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L53	4334	385/37	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L54	886	L53 and substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L55	310	L53 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L56	34	L54 and L55	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L57	11	L42 and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L58	43	L53 and (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L59	136	(L51 or L52) and substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56

## EAST Search History

L60	0	(optic\$4 near fiber) and (grating near substrate) and (reflect\$4 near tip)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L61	8	(optic\$4 near fiber) and (grating near coupl\$4) and (reflect\$4 near tip)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L62	2	(optic\$4 near fiber) and (grating near coupl\$4) and (reflect\$4 near tip) and (385/37)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L63	19	(optic\$4 near fiber) and (grating near substrate) and (coupling near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L64	495668	(optic\$3 fiber near angled near (end or tip)) and coupl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L65	38	(optic\$3 near fiber near angled near (end or tip)) and coupl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L66	2260	(optic\$4 near fiber) and (grating near coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L67	34	(optic\$4 near fiber) and (grating near coupl\$4) and (fiber near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L68	6	(optic\$4 near fiber) and (grating near substrate) and (fiber near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L69	52	(optic\$4 near fiber) and (grating near substrate) and (reflect\$4 near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L70	641	(optic\$4 near fiber) and (grating near coupl\$4) and (385/37)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L71	20	(optic\$4 near fiber) and (grating near coupl\$4) and (385/38)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56

## EAST Search History

L72	196	waveguide near grating near coupler	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L73	117	L72 and (optic\$4 near fiber)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L74	2	L72 and 385/92	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L75	3	L72 and 385/38	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L76	6	L72 and (angle\$2 near (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L77	14	L73 and ("45" near degree)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L78	2	"20040240788"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L79	2	"5657407".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L80	2	"6289144".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L81	7	"6144480"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L82	0	"6144480.pn."	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L83	2	"6144480".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56

## EAST Search History

L84	2	"5513196".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L85	2	"5444802".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L86	2	"4776661".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L87	2	"6430349".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L88	2	"6277330".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L89	11	(US-20020106156-\$ or US-20030010904-\$ or US-20030081902-\$ or US-20040202428-\$ or US-20040240788-\$).did. or (US-5488681-\$ or US-5657407-\$ or US-5724463-\$ or US-6136611-\$ or US-6289144-\$).did. or (DE-19507945-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L90	5	L89 and (polar\$8 or "PMF")	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L91	3055	((polarization adj maintaining adj fiber) or "PMF")	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L92	3	L91 and (waveguide adj grating adj coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L93	3	L91 and (waveguide near grating near coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L94	107	L91 and (waveguide near2 coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L95	40	L91 and (grating near2 coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56



## EAST Search History

L96	10	L94 and L95	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L97	4428	substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L98	156	L97 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L99	1691	(L97 or L98) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L100	178	(L97 or L98) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L101	47	L98 and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L102	12	(angl\$4 near2 (tip or fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L103	136	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L104	134	(angl\$4 near2 (fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L105	12	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L106	115	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L107	136	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56

## EAST Search History

L108	115	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L109	4334	385/37	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L110	886	L109 and substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L111	310	L109 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L112	34	L110 and L111	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L113	4428	substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L114	156	L113 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L115	1691	(L113 or L114) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L116	178	(L113 or L114) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L117	47	L114 and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L118	12	(angl\$4 near2 (tip or fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L119	136	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56

## EAST Search History

L120	134	(angl\$4 near2 (fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L121	12	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L122	115	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L123	136	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L124	115	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L125	4334	385/37	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L126	886	L125 and substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L127	310	L125 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L128	34	L126 and L127	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L129	0	(optic\$4 near fiber) and (grating near substrate) and (reflect\$4 near tip)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L130	8	(optic\$4 near fiber) and (grating near coupl\$4) and (reflect\$4 near tip)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L131	19	(optic\$4 near fiber) and (grating near substrate) and (coupling near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56

## EAST Search History

L132	495668	(optic\$3 fiber near angled near (end or tip)) and coupl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L133	2260	(optic\$4 near fiber) and (grating near coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L134	34	(optic\$4 near fiber) and (grating near coupl\$4) and (fiber near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L135	6	(optic\$4 near fiber) and (grating near substrate) and (fiber near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L136	52	(optic\$4 near fiber) and (grating near substrate) and (reflect\$4 near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L137	641	(optic\$4 near fiber) and (grating near coupl\$4) and (385/37)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L138	20	(optic\$4 near fiber) and (grating near coupl\$4) and (385/38)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L139	196	waveguide near grating near coupler	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L140	117	L139 and (optic\$4 near fiber)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L141	2	L139 and 385/92	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L142	3	L139 and 385/38	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L143	6	L139 and (angle\$2 near (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56

## EAST Search History

L144	7	"6144480"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L145	0	"6144480.pn."	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L146	2	"6144480".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L147	2	"5513196".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L148	2	"5444802".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L149	2	"4776661".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L150	2	"6430349".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L151	2	"6277330".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L152	3055	((polarization adj maintaining adj fiber) or "PMF")	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L153	3	L152 and (waveguide near grating near coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L154	107	L152 and (waveguide near2 coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L155	40	L152 and (grating near2 coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L156	3	L152 and (waveguide adj grating adj coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56

## EAST Search History

L157	11	L98 and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L158	43	L109 and (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L159	11	L114 and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L160	43	L125 and (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L161	2	(optic\$4 near fiber) and (grating near coupl\$4) and (reflect\$4 near tip) and (385/37)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L162	38	(optic\$3 near fiber near angled near (end or tip)) and coupl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L163	14	L140 and ("45" near degree)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L164	2	"20040240788"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L165	2	"5657407".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L166	2	"6289144".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L167	11	(US-20020106156-\$ or US-20030010904-\$ or US-20030081902-\$ or US-20040202428-\$ or US-20040240788-\$).did. or (US-5488681-\$ or US-5657407-\$ or US-5724463-\$ or US-6136611-\$ or US-6289144-\$).did. or (DE-19507945-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56

## EAST Search History

L168	5	L167 and (polar\$8 or "PMF")	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L169	10	L154 and L155	US-PGPUB; USPAT; DERWENT	OR	ON	2006/03/19 20:56
L170	136	(L107 or L108) and substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L171	136	(L123 or L124) and substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L172	2735	385/27	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L173	2635	385/12	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L174	1660	385/50	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:56
L175	24	("20020106156" "20020146054" "20030010904" "20030081902" "20040202428" "20040240788" "5488681" "5657407" "5724463" "6136611" "6289144" "6697411").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:57
L176	2154	385/49	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 21:10
L177	1	372/923	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 21:10
L178	2612	372/92	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 21:10
L179	1230	436/527	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 21:10

## EAST Search History

L180	1620	250/227.11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 21:10
S1	4039	substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/31 14:20
S2	140	S1 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/31 14:20
S3	1529	(S1 or S2) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:50
S4	156	(S1 or S2) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/10 13:36
S5	8	S2 and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/19 20:50
S6	39	S2 and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/10 13:36
S7	8	(angl\$4 near2 (tip or fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/10 13:40
S8	122	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/31 14:20
S9	121	(angl\$4 near2 (fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/10 13:41
S10	8	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/10 13:41
S11	100	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/10 13:41



## EAST Search History

S12	122	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/15 13:10
S13	101	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/15 13:10
S14	120	(S12 or S13) and substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/15 13:10
S15	4071	385/37	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/31 14:19
S16	824	S15 and substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/31 14:20
S17	293	S15 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/31 14:20
S18	33	S16 and S17	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/31 14:20
S19	41	S15 and (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/31 14:21
S20	4073	substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S21	142	S20 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S22	1544	(S20 or S21) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S23	157	(S20 or S21) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54

## EAST Search History

S24	40	S21 and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S25	9	S21 and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S26	9	(angl\$4 near2 (tip or fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S27	123	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S28	122	(angl\$4 near2 (fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S29	9	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S30	103	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S31	123	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S32	103	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S33	122	(S31 or S32) and substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S34	4071	385/37	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S35	824	S34 and substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54

## EAST Search History

S36	293	S34 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S37	33	S35 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S38	41	S34 and (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:54
S39	0	(optic\$4 near fiber) and (grating near substrate) and (reflect\$4 near tip)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:57
S40	8	(optic\$4 near fiber) and (grating near coupl\$4) and (reflect\$4 near tip)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 16:29
S41	2	(optic\$4 near fiber) and (grating near coupl\$4) and (reflect\$4 near tip) and (385/37)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:56
S42	19	(optic\$4 near fiber) and (grating near substrate) and (coupling near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:58
S43	458330	(optic\$3 fiber near angled near (end or tip)) and coupl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:58
S44	29	(optic\$3 near fiber near angled near (end or tip)) and coupl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 15:58
S45	2084	(optic\$4 near fiber) and (grating near coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 16:28
S46	31	(optic\$4 near fiber) and (grating near coupl\$4) and (fiber near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 16:30
S47	6	(optic\$4 near fiber) and (grating near substrate) and (fiber near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 16:30

## EAST Search History

S48	46	(optic\$4 near fiber) and (grating near substrate) and (reflect\$4 near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 16:30
S49	608	(optic\$4 near fiber) and (grating near coupl\$4) and (385/37)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 16:30
S50	19	(optic\$4 near fiber) and (grating near coupl\$4) and (385/38)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 16:30
S51	178	waveguide near grating near coupler	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 16:31
S52	104	S51 and (optic\$4 near fiber)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 16:31
S53	12	S52 and ("45" near degree)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 18:10
S54	2	S51 and 385/92	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 16:32
S55	3	S51 and 385/38	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 16:32
S56	3	S51 and (angle\$2 near (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 16:32
S57	2	"20040240788"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 18:12
S58	2	"5657407".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 18:16
S59	2	"6289144".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 18:17

## EAST Search History

S60	7	"6144480"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 18:17
S61	0	"6144480.pn."	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 18:17
S62	2	"6144480".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 18:18
S63	2	"5513196".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 18:23
S64	2	"5444802".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 18:29
S65	2	"4776661".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 18:32
S66	2	"6430349".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 18:33
S67	2	"6277330".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/01 18:33
S68	11	(US-20020106156-\$ or US-20030010904-\$ or US-20030081902-\$ or US-20040202428-\$ or US-20040240788-\$).did. or (US-5488681-\$ or US-5657407-\$ or US-5724463-\$ or US-6136611-\$ or US-6289144-\$).did. or (DE-19507945-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 10:23
S69	5	S68 and (polar\$8 or "PMF")	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 10:25
S70	2796	((polarization adj maintaining adj fiber) or "PMF")	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 10:25

## EAST Search History

S71	1	S70 and (waveguide adj grating adj coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 10:27
S72	1	S70 and (waveguide near grating near coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 10:27
S73	92	S70 and (waveguide near2 coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 10:27
S74	33	S70 and (grating near2 coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 10:27
S75	7	S73 and S74	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 10:27
S76	4078	substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S77	142	S76 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S78	1546	(S76 or S77) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S79	157	(S76 or S77) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S80	40	S77 and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S81	9	S77 and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S82	9	(angl\$4 near2 (tip or fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S83	123	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32

## EAST Search History

S84	122	(angl\$4 near2 (fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S85	9	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S86	103	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S87	123	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S88	103	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S89	122	(S87 or S88) and substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S90	4084	385/37	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S91	827	S90 and substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S92	293	S90 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S93	33	S91 and S92	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S94	41	S90 and (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S95	4078	substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32

## EAST Search History

S96	142	S95 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S97	1546	(S95 or S96) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S98	157	(S95 or S96) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S99	40	S96 and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S10 0	9	(angl\$4 near2 (tip or fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S10 1	123	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S10 2	122	(angl\$4 near2 (fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S10 3	9	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S10 4	103	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S10 5	123	(angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S10 6	103	(angl\$4 near2 (fiber)) and (waveguide adj grat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S10 7	4084	385/37	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32



## EAST Search History

S108	827	S107 and substrate and (waveguide same grating same coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S109	293	S107 and (angl\$4 near2 (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S110	33	S108 and S109	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S111	9	S96 and (waveguide adj grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S112	41	S107 and (angl\$4 near2 (tip or fiber)) and (grat\$4 adj coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S113	122	(S105 or S106) and substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S114	0	(optic\$4 near fiber) and (grating near substrate) and (reflect\$4 near tip)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S115	8	(optic\$4 near fiber) and (grating near coupl\$4) and (reflect\$4 near tip)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S116	2	(optic\$4 near fiber) and (grating near coupl\$4) and (reflect\$4 near tip) and (385/37)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S117	19	(optic\$4 near fiber) and (grating near substrate) and (coupling near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S118	458795	(optic\$3 fiber near angled near (end or tip)) and coupl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S119	29	(optic\$3 near fiber near angled near (end or tip)) and coupl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32

## EAST Search History

S12 0	2085	(optic\$4 near fiber) and (grating near coupl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S12 1	31	(optic\$4 near fiber) and (grating near coupl\$4) and (fiber near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S12 2	6	(optic\$4 near fiber) and (grating near substrate) and (fiber near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S12 3	46	(optic\$4 near fiber) and (grating near substrate) and (reflect\$4 near angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S12 4	609	(optic\$4 near fiber) and (grating near coupl\$4) and (385/37)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S12 5	19	(optic\$4 near fiber) and (grating near coupl\$4) and (385/38)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S12 6	178	waveguide near grating near coupler	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S12 7	104	S126 and (optic\$4 near fiber)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S12 8	2	S126 and 385/92	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S12 9	3	S126 and 385/38	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S13 0	3	S126 and (angle\$2 near (tip or fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S13 1	12	S127 and ("45" near degree)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32

## EAST Search History

S13 2	2	"20040240788"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S13 3	2	"5657407".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S13 4	2	"6289144".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S13 5	7	"6144480"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S13 6	0	"6144480.pn."	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S13 7	2	"6144480".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S13 8	2	"5513196".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S13 9	2	"5444802".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S14 0	2	"4776661".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S14 1	2	"6430349".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32
S14 2	2	"6277330".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:32

## EAST Search History

S14 3	11	(US-20020106156-\$ or US-20030010904-\$ or US-20030081902-\$ or US-20040202428-\$ or US-20040240788-\$).did. or (US-5488681-\$ or US-5657407-\$ or US-5724463-\$ or US-6136611-\$ or US-6289144-\$).did. or (DE-19507945-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 11:32
S14 4	5	S143 and (polar\$8 or "PMF")	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 11:32
S14 5	2796	((polarization adj maintaining adj fiber) or "PMF")	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 11:32
S14 6	1	S145 and (waveguide adj grating adj coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 11:32
S14 7	1	S145 and (waveguide near grating near coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 11:32
S14 8	92	S145 and (waveguide near2 coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 11:32
S14 9	33	S145 and (grating near2 coupler)	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 11:32
S15 0	7	S148 and S149	US-PGPUB; USPAT; DERWENT	OR	ON	2005/09/06 11:32
S15 1	2593	385/27	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:36
S15 2	2505	385/12	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:36
S15 3	1559	385/50	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/06 11:36